



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: JAMES CHEN  
Serial No.: 10/091,144  
Filed: March 4, 2002

For: **NOVEL USES OF  
PHOTOLUMINESCENT  
NANOPARTICLES FOR  
PHOTODYNAMIC THERAPY**

Confirmation No.: 7692  
Art Unit: 1615  
Examiner: Unassigned

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Service as first class mail in an envelope addressed to:  
Commissioner for Patents  
U.S. Patent and Trademark office  
P.O. Box 2327  
Arlington, VA 22202, on this date.

05/01/02  
Date

*Lynn Morkunas*  
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**PRELIMINARY AMENDMENT**

Commissioner for Patents  
U.S. Patent and Trademark office  
P.O. Box 2327  
Arlington, VA 22202

Dear Sir:

Preliminary to examination of the above-captioned patent application,  
please amend the application as follows:

**IN THE SPECIFICATION:**

Please amend the specification as follows (a marked-up copy of the amended specification is attached to this Amendment):

**Please replace the paragraph on page 1, lines 17-28, with the following paragraph:**

*(A)* PDT is a form of energy-activated therapy for destroying abnormal or diseased tissue. The procedure for this treatment includes administration of a photosensitive compound (a PDT drug) to a patient, followed by illumination with light having a wavelength or waveband corresponding to a characteristic absorption wavelength of the photosensitive compound. Upon illumination, the photosensitive compound absorbs photons from the light source and transfers this energy to surrounding oxygen molecules. This in turn induces formation of singlet oxygen and other highly-reactive free radical species, leading to a